

# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/519,875	03/06/2000	Johannes C. M. Jasper	PM-257643-P-0128.010-US	8797
909	7590 05/08/2002		·	
PILLSBURY WINTHROP, LLP			EXAMINER	
P.O. BOX 10500 MCLEAN, VA 22102			KIM, PETER B	
			ART UNIT	PAPER NUMBER
			2851	
		DATE MAILED: 05/08/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applica	ant(s)			
Office Action Summary		09/519,875	JASPE	JASPER ET AL.			
		Examiner	Art Uni	t			
		Peter B Kim	2851				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
	Status						
1)⊠ 2a)⊠	Responsive to communication(s) filed on <u>14 N</u> This action is <b>FINAL</b> . 2b) This	is action is non-fir	al				
·	,			on as to the merits is			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
·	Claim(s) is/are allowed.						
	☑ Claim(s) <u>1-12</u> is/are rejected.						
	Claim(s) is/are objected to.						
•	Claim(s) are subject to restriction and/or for Papers	r election requirer	nent.				
	The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)	a)⊠ All b)☐ Some * c)☐ None of:						
	1.⊠ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) 2	4)	Interview Summary (PTO-41 Notice of Informal Patent Ap Other:				

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 2. Claims 1-12 and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Loopstra (6,208,407).

Loopstra discloses in the abstract and Figures 1-7, a lithographic projection apparatus with a radiation system (LA), a first object table (MT) with a mask and a second object table (WT) with a substrate and a reference surface, a projection system for imaging an irradiated portion of the mask onto a substrate, a positioning system (Figure 3) a height mapping system (Fig. 2-8), a position measuring system and a controller.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Loopstra et al. (Loopstra) (WO 99/28790) in view of Loopstrat et al. (Loopstra) (US 5,969,441).

WO 99/28790 discloses in the abstract, Figures 1 and 5-8 and pages 10, 11 and 19-24, a lithographic projection apparatus with a radiation system (LA), a first object table (MT) with a mask and a second object table (WT) with a substrate and a reference surface, a projection system for imaging an irradiated portion of the mask onto a substrate, a height mapping system (Fig. 5-8), a position measuring system and a controller. However, WO 99/28790 does not disclose a positioning system for moving the second table from the exposure station to the measuring station. (US 5,969,441) discloses in Figures 1, 2 and 3, the positioning system. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to provide the positioning system of (US 5,969,441) to the invention of WO 99/28790 in order to increase the throughput by having an exposure station and a measuring station while measuring accurate height.

#### Remarks

Applicant argues that the measuring of the height in the cited references is completed with respect to a reference plane, whereas the present invention discloses measuring of the height relative to a "physical reference surface." As are as the examiner can ascertain, the reference plane in the prior arts is also physical reference surface.

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Conclusion

1. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Peter Kim whose telephone number is (703) 305-0105.

The examiner can normally be reached on Monday-Thursday from 6:30 AM to 4:00 PM.

The examiner can also be reached on alternate Fridays during the same hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Russ Adams, can be reached on (703) 308-2847. Any inquiry of a general

nature or relating to the status of this application or proceeding should be directed to the

Group receptionist whose telephone number is (703) 308-0956.

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